1		BELLSOUTH TELECOMMUNICATIONS, INC.
2		REBUTTAL TESTIMONY OF MILTON MCELROY, JR
3		BEFORE THE TENNESSEE REGULATORY AUTHORITY
4		DOCKET NO. 97-00309
5		July 22, 2002
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8	Q.	PLEASE STATE YOUR NAME, YOUR POSITION WITH BELLSOUTH
9		TELECOMMUNICATIONS, INC., YOUR BUSINESS ADDRESS, AND YOUR
10		EXPERIENCE AND BACKGROUND.
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12	A.	My name is Milton McElroy, Jr. I am employed by BellSouth
13		Telecommunications, Inc. ("BellSouth") as a Director, Interconnection Services.
14		In this position, I am responsible for Operations Support Systems ("OSS")
15		Testing across the BellSouth region. My business address is 675 West
16		Peachtree Street, Atlanta, Georgia 30375. I have over 14 years of experience in
17		Engineering and Operations. I earned a Bachelor of Science degree from
18		Clemson University in Civil Engineering in 1988 and a Master's degree in
19		Business Administration from Emory University in 2001. Additionally, I am a
20		registered Professional Engineer in North Carolina, South Carolina and Alabama.
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22	Q.	WHAT IS THE PURPOSE OF YOUR TESTIMONY?
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24	A.	The purpose of my testimony is to rebut the testimony of Mr. Jay Bradbury with
25		AT&T, Ms. Sherry Lichtenberg with WorldCom, Ms. Colette Davis with Covad,

and Ms. Mary Conquest with DeltaCom by providing this Authority with evidence about the regionality of BellSouth's systems as tested by PricewaterhouseCoopers ("PwC"), together with information concerning the Georgia and Florida Third Party OSS testing conducted by KPMG Consulting (KCI).

Many of the CLECs' claims about the OSS Tests in Georgia and Florida, as well as their claims about the regionality of BellSouth's Pre-ordering and Ordering Systems are the same issues that have been raised by the CLECs in response to BellSouth's federal 271 filings. BellSouth has addressed these matters extensively its filings with the FCC, and for the sake of brevity and conciseness, I am adopting as part of my testimony the following paragraphs from the Affidavit of William N. Stacy filed on June 20, 2002 with the Federal Communications Commission: paragraphs 29 to 38 on the Georgia OSS Test, paragraphs 62 to 78 on the PwC Regionality Assessment, and paragraphs 324 to 329 on the Florida OSS Test. I am also adopting the following exhibits that are attached to the Affidavit of William N. Stacy: Exhibit WNS-4, Exhibit WNS-5, Exhibit WNS-6, Exhibit WNS-7, Exhibit WNS-10, Exhibit WNS-11, Exhibit WNS-12, Exhibit WNS-50, Exhibit WNS-52, Exhibit WNS-53. Both Mr. Stacy's affidavit and exhibits can be found in Mr. Ron Pate's Exhibit RMP-1.

I have personal knowledge of the matters contained in the paragraphs and exhibits of Mr. Stacey's Affidavit that I have adopted and I am fully capable and qualified to attest to the accuracy of the information contained therein and to respond to questions regarding those paragraphs.

1 2 Finally, I use many acronyms throughout my testimony. To aid the reader in 3 understanding these terms, I have attached as Exhibit MM-1, a list of these 4 acronyms and their meanings to facilitate understanding my testimony. 5 PLEASE DISCUSS THE SUGGESTIONS MADE ON PAGES 4 AND 5 OF MS. 6 Q. 7 CONQUEST'S TESTIMONY, AND ON PAGES 13 TO 18 OF MS. DAVIS'S 8 TESTIMONY REGARDING THIS AUTHORITY'S USE OF OSS TESTING THAT 9 HAS BEEN DONE IN GEORGIA AND FLORIDA. 10 11 Α. Both parties suggest that this Authority should not consider the OSS Testing in Georgia or Florida. They suggest that this Authority should undertake the same 12 13 testing in Tennessee simply because the Florida and Georgia tests were not 14 conducted in Tennessee. As an example, Ms. Davis says on page 18 of her 15 testimony, "[b]efore BellSouth can use testing to support its assertion that it has met the requirements of Checklist Item 2 with regard to OSS, such testing would 16 17 have to be done in Tennessee, not in some other state." 18 19 This position makes no sense, and it is intended solely to delay this proceeding 20 and, as a result, the opportunity for Tennesseans to enjoy more competitive 21 telecommunications choices. Indeed, this position is inconsistent with the

testimony of other CLEC witnesses in this proceeding, who are more than willing

to use the results of the Florida and Georgia tests when they can claim that those

tests support their point of view. BellSouth respectfully submits that the Authority

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should conclude that additional expensive and lengthy testing specifically for Tennessee is not required. Such a conclusion would rest on the following facts.

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First, the Georgia OSS Test meets all of the criteria established by the FCC in its decision on Bell Atlantic's New York application regarding the characteristics of an appropriate OSS test. Specifically, in the Georgia OSS Test, as in the New York OSS Test, KCI acted as an independent tester, conducted a military-style test, made efforts to place itself in the position of an actual market entrant, and made efforts to maintain blindness so that BellSouth would not know that any particular order came from KCI whenever possible. In compliance with Federal Communications Commission (FCC) decisions, the Georgia Test was a focused test that appropriately concentrated on the specific areas of BellSouth's OSS that had not experienced significant commercial usage. KCI tested what was ordered to be tested by the Georgia Commission after extensive CLEC input and participation. Some products and system functionality were not available when the Georgia Master Test Plan (see Exhibit MM-2) was developed or when testing occurred. However, on January 12, 2000, the Georgia Commission issued an order requiring BellSouth to initiate additional testing of its OSS. The Supplemental Test Plan (STP), provided as Exhibit MM-3, includes: an assessment of the change management process as it applied to the implementation of Release 6.0 (also known as OSS99); an evaluation of the current pre-ordering, ordering, and provisioning of xDSL compatible loops; a functional test of resale pre-ordering, ordering, provisioning, maintenance and repair, and billing transactions for the top 50 electronically orderable retail services available for resale that have not experienced significant commercial

usage; and an evaluation of the processes and procedures for the collection and calculation of performance data. Together, the MTP and STP provide a complete description of the processes, systems and procedures used by BellSouth. These processes, systems and procedures used to provide wholesale elements and services to CLECs in Georgia are the same processes, systems and procedures used to provide those same elements to CLECs in Tennessee and in the other seven states in BellSouth's nine-state region.

Details of KPMG's evaluation and methods of analysis, and the results of the MTP, STP, and the Flow-Through Evaluation Plan are contained in the Master Test Plan Final Report (MTP Final Report), the Supplemental Test Plan Final Report (STP Final Report), and the Flow Through Evaluations, which were filed at the Georgia Commission on March 20, 2001. The MTP Final Report, the STP Final Report, and the Flow-Through Evaluation are attached as Exhibits MM-4 through MM-6.

Ms Davis essentially complains that the Georgia Test did not test everything. Third Party OSS Tests, by their nature, must test a snapshot in time. The fact that things change during or after the test does not alleviate the probative value of the test, which proves that BellSouth provides adequate access, functionality, and performance to CLECs. The fact that the systems have evolved since the Georgia Test should not impact this Authority's use of the test. Otherwise, no third-party test would ever have value.

Second, the Florida OSS Test meets these same criteria as established in the New York and Georgia Tests. The Florida Test did address additional test points

including products that were not available at the time of the Georgia Test and some additional processes that support the CLEC Community such as Account Teams and Training. The results of the Florida Test, which were published on June 21, 2002 and are being provided as Exhibit MM-7, were similar to the results in the Georgia Test. The results of the Georgia Test were that 98% of the evaluation criteria were satisfied while the Florida Test results were that 97% of the evaluation criteria were where KCI has reached conclusion. BellSouth has now undergone two OSS Tests at a cost of well over \$100,000,000 (tests that have taken four years to complete) and both OSS Tests have led to the same conclusion—BellSouth provides non-discriminatory access to CLECs.

Finally, BellSouth engaged PricewaterhouseCoopers ("PwC") to examine BellSouth's assertions regarding the regionality of its pre-ordering and ordering OSS. PwC's examination was conducted in accordance with "attestation standards" established by the American Institute of Certified Public Accountants ("AICPA"). An "attest engagement" occurs when a practitioner, such as PwC, is engaged to issue a written communication that concludes whether or not the written assertion of another party, such as BellSouth, is reliable. Under the AICPA attestation standards, an examination is the highest level of assurance that can be provided on an assertion and, if positive, results in an opinion by the practitioner, PwC, that the assertions presented are fairly stated in all material respects.

The purpose of the PwC attestation examination was to provide proof that BellSouth's preordering and ordering OSS are regional and to assure states within BellSouth's region that they could rely on OSS testing and

performance results from Georgia. PwC's modeled their attestation after the Southwestern Bell's Five-State Regional OSS Attestation Examination. Given that the FCC viewed this model positively, BellSouth has used it as a roadmap. This proof contributed to the decisions of the Alabama, Kentucky, Louisiana, Mississippi, North Carolina and South Carolina Commissions to endorsement BellSouth's 271 applications along with the FCC decision on Georgia and Louisiana.

PwC's results from their assessment are extensively discussed in paragraphs 62 to 78 of Mr. Stacy's affidavit. PwC concluded that its examination provided a reasonable basis for its opinion, in which it determined that the BellSouth management assertions were fairly stated, in all material respects, as of May 3, 2001. The PwC Report provides data and validated factual assertions that this Authority can rely upon to establish the Regionality of BellSouth's Pre-Ordering and Ordering OSS.

From the CLECs' perspective, requesting additional testing is nothing but a delaying tactic. One point that every participant in this proceeding would probably agree with is that the telecommunications industry is always changing and evolving— new technology, new products, and new competitors. BellSouth's (and other RBOCs') interfaces and systems are constantly evolving as well. Internal, regulatory, and even CLEC-driven changes are incorporated into the systems to increase system functionality and performance. To argue that the Authority should order additional testing because things have changed since the Georgia and Florida tests began is the same thing as arguing that the Authority

should never move forward. There is no reason for the Authority to delay its decision to bring the benefits of BellSouth's long distance service to the citizens of Tennessee, just because Tennessee hasn't conducted its own third party tests.

6 Q. THIS AUTHORITY HAS PREVIOUSLY RULED ON BELLSOUTH'S

REGIONALITY, AND THE AUTHORITY DID NOT AGREE THAT BELLSOUTH'S

8 OSS WERE REGIONAL IN ALL INSTANCES. WHY SHOULD THE

AUTHORITY CONSIDER THE PREVIOUS ARGUMENT THAT OSS TESTING

IS NOT NECESSARY IN TENNESSEE?

Α.

BellSouth filed a Motion for Reconsideration and asked the Authority to reconsider the *Order Resolving Phase I Issues of Regionality*, dated June 21, 2002. The Authority's order concluding that BellSouth's OSS was not regional was not consistent with the FCC or any of the other state commissions who have ruled on the regionality of BellSouth's Pre-ordering and Ordering OSS. For instance, on May 15, 2002, the FCC issued an order approving BellSouth's applications for interLATA relief in Georgia and Louisiana. As part of that decision, the FCC concluded that BellSouth's OSS in Georgia and Louisiana are the same. Specifically, the FCC stated that

1 2 3 4 5 6	"We conclude that BellSouth, through the PwC review and other aspects of its application, provides sufficient evidence that its electronic processes are the same in Georgia and Louisianain addition to PwC's review, the record indicates that BellSouth OSS for pre-ordering and ordering functions does not distinguish between Georgia and Louisiana." (Georgia/Louisiana Order, ¶ 110)
7 8	In reaching this decision, the FCC "reject[ed] competitive LEC claims that
9	BellSouth's OSS are not the same in Georgia and Louisiana." Id. at ¶
10	111. Finally, the FCC stated that:
11 12 13 14 15 16 17 18 19 20 21 22	"Accordingly, we find that BellSouth, through the PwC audit and its attestation examination, provides evidence that its OSS in Georgia are substantially the same as the OSS in Louisiana. We shall consider BellSouth's commercial OSS performance in Georgia and the Georgia third-party test to support the Louisiana application and rely on Louisiana performance to support the Georgia application. In addition, because the OSS are the same in both states, where low volumes in one state yield inconclusive or inconsistent information concerning BellSouth's compliance with the competitive checklist, we can examine data reflecting BellSouth's performance in the other state."
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25	Clearly, the FCC has set forth an explicit roadmap for Section 271 applicants to
26	follow to prove that their OSS are regional. The FCC defined "the kind of
27	evidentiary showing that will be expected of applicants in the future" who seek to
28	make a regionality showing. The FCC further stated that "[b]y explaining clearly
29	what types of evidence we have found to be persuasive in this instance, we are
30	establishing a roadmap that can be followed by other applicants." 1

<sup>&</sup>lt;sup>1</sup> SWBT Kansas/Oklahoma Order, at ¶110.

To demonstrate regionality, an RBOC must show that it provides wholesale services to competing carriers in its various states through one OSS "using common interfaces, systems, procedures and, to a large extent, common personnel." *Kansas/Oklahoma Order*, at 107. An RBOC may demonstrate either that competing carriers in its various states share the use of a single OSS (meaning "a common set of processes, business rules, interfaces, systems and, in many instances, even personnel"); or that the OSS "reasonably can be expected to behave the same way in all three states." *Id.* at 111. An RBOC must make this showing for both the manual, as well as the mechanized aspects of its OSS. *Id.* On the mechanized side, an RBOC must show that he key interfaces used by CLECs to submit LSRs to the RBOC are the same regionwide (in other words that a CLEC can use one interface to submit orders for any state in the region without state-specific modifications). *Id.* at 114.

For the manual aspects of its OSS, an RBOC must show that "the personnel involved in actual provisioning and maintenance/repair of CLEC orders in Kansas and Oklahoma will do their jobs in the same manner as those in Texas." *Id.* at 113. The FCC relied on evidence that certain functions were performed out of region-wide work centers; that state-specific operations use the same systems and same procedures region-wide; personnel receive the same training region-wide; and that there is a common organizational structure region-wide. The FCC concluded that, based on this evidence, "it is reasonable to conclude that the existence of these similarities will result in similar performance." *Id.* at 113.

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In addition, the FCC, in its decision on BellSouth's Section 271 applications for Georgia and Louisiana, the FCC found the same PwC attestation credible and reliable. Specifically, the FCC stated:

"We conclude that BellSouth, through the PwC review and other aspects of its application, provides sufficient evidence that its electronic processes are the same in Georgia and Louisiana. In conducting its review, PwC examined the consistency of applications and technical configurations used to process preordering and ordering transactions region-wide, and reviewed the consistency of documentation of systems and processes in BellSouth's local carrier service center. PwC observed transactions, reviewed user guides, performed change control review, and interviewed relevant BellSouth service representatives in making its determination that BellSouth's OSS systems for pre-16 ordering and ordering are identical. PwC also reviewed the consistency of Local Service Requests (LSRs) for order entry, LSR screening and validating procedures, and various servicing processes to conclude that there is "no material difference in functionality or performance" between DOE and SONGS." (Georgia/Louisiana Order, para. 110

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The FCC relied on the attestation, in conjunction with the other evidence in the record, to conclude that BellSouth's OSS in Georgia and Louisiana are the same.

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BellSouth followed the roadmap established by the FCC, and has provided conclusive evidence that its Pre-ordering and Ordering OSS are regional. The Authority's conclusion to the contrary is at odds with the guidance provided by the FCC in this area, and with the facts.

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Q. CAN YOU PROVIDE AN OVERVIEW OF THE FLORIDA OSS TEST AND THE RESULTS FOR THE TEST?

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2	A.	Yes. The overall test of BellSouth's OSS was designed to be multi-faceted and
3		provide end-to-end coverage of the systems, interfaces and processes that
4		enable CLECs to compete with BellSouth for customers' local telephone service.
5		In determining the breadth and depth of the test, all stages of the CLEC-ILEC
6		relationship were considered. These included the following:
7		Establishing the relationship
8		Performing daily operations
9		Maintaining the relationship
10		Further, each of the service delivery methods — resale, unbundled network
11		elements ("UNE") and combinations of UNEs, including the UNE Platform ("UNE-
12		P") were included in the scope of the test.
13		The plan was divided into three test families to organize and facilitate testing:
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15		<ul> <li>Performance Metrics Review (PMR)</li> </ul>
16		<ul> <li>Policies and Procedures Review (PPR)</li> </ul>
17		<ul> <li>Transaction Validation and Verification (TVV)</li> </ul>
18 19		The areas subject to testing that mirror the major business functions performed
20		by a telecommunications carrier (ILEC or CLEC) were:
21 22		<ul> <li>Relationship Management and Infrastructure (RMI) which included Account Team, CLEC Training and Change Management</li> </ul>
23		Order Management (OM) for Preordering and Ordering of services
24		<ul> <li>Provisioning of services</li> </ul>
25 26		<ul> <li>Maintenance and Repair Services (RPM for Repair, Provisioning and Maintenance)</li> </ul>
27		Billing (BLG) of services provides
28 29		<ul> <li>Metrics testing of the Service Quality Measurements ("SQM") ordered by the FPSC</li> </ul>

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Within each of the test families, the methods and processes to be applied to

measure BellSouth's performance were described along with the specific points

in the systems and processes where BellSouth performance was evaluated. The

results of the test were compared against measures and criteria established by

the FPSC in the SQM, or established by KCI if measures did not exist.

The plan also described the development and application of scenarios to be used within the TVV test families in evaluating BellSouth's OSS and related support services. KCI developed these scenarios to test the functionality of BellSouth's pre-ordering and ordering, provisioning maintenance and repair and billing systems. The scenarios were designed to depict real-world situations that CLECs currently face or may face in the near future. The scenarios were used to develop test cases that provided a detailed description of the transactions and introduced additional variables, such as errors and supplements to further simulate real world transactions. In addition, KCI submitted live transactions through coordination with CLECs. The test was conducted using the latest BellSouth interfaces in production. The interfaces included the Trouble Administration Facilitation Interface ("TAFI"), Electronic Communication Trouble Administration ("ECTA"), Optional Daily Usage File ("ODUF"), Access Daily Usage File ("ADUF"), Customer Record Information System ("CRIS"), Carrier Access Billing System ("CABS"), Local Exchange Navigation System ("LENS") a Graphical User Interface (GUI), Telecommunications Access Gateway ("TAG"), a machine-to-machine interface and Electronic Data Interchange ("EDI") a batchdriven machine-to-machine interface. Manual order processing was also a

component of the Florida test. Additionally, the test was conducted using the most current release of the BellSouth business rules at the time of the test. The test adopted the military-style test philosophy, which suggested a "test until you pass" approach. The issuance of Exceptions and Observations process associated with a military style process is described in detail in the Report in Exhibit MM-7. KCI began its testing efforts in early 2000 under the guidance of the FPSC Staff. The testing has covered over a thousand test points or evaluation criteria over this testing period. KCI published the Report on June 21, 2002. (Exhibit MM-7) This document includes all the test points, test history and test results. The Report should be viewed in two phases. The first phase includes OM, RMI, RPM, and BLG. The second phase is for the metrics test. BellSouth upgraded its metrics-reporting platform with the April metrics reports so KCI is now retesting all the metrics test points, thus these test points are rated as "Testing in Progress" in the Report. In the Report, KCI defines its evaluation criteria as "the norms, benchmarks, standards, and guidelines used to evaluate items identified for testing. Evaluation criteria also provided a framework for identification of the scope of tests, and the types of measures that must be made during testing, and the approach necessary to analyze results. The results of the first phase concluded that 94% of the evaluation criteria were satisfied while 3% remain testing in progress and 3% were shown as not satisfied. BellSouth expects all testing in progress evaluation criteria for phase one to be completed and satisfied when the Report is updated and issued as

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Version 2 on July 30, 2002. When considering just the evaluation where KCI has reached conclusion, i.e.: satisfied or not satisfied evaluation criteria, BellSouth's success rate is at 97%. This overwhelming success rate combined with BellSouth's commercial data provides conclusive evidence that BellSouth provides non-discriminatory access and parity to CLECs.

The specific results for each test domain, as published in the Report on June 21, 2002 are as follows:

Domain	Satisfied	Not Satisfied	Testing in Progress	Total
Order Management	105	4	1	110
Billing	81	0	6	87
Relationship Mgmt	67	7	0	74
Infrastructure				
Repair Provisioning	202	4	7	213
& Maintenance				
Phase I Total	455 <sup>2</sup>	15	14	484
%	94%	3%	3%	100%

KCI thoroughly assessed each test point and provides a detailed test history for each of the evaluation criteria in the Report. The Executive Summary of the Report provides an overview of each test domain and its respective results. The Report did identify a few areas where BellSouth did not meet the standards established by either the Florida Public Service Commission (FPSC) or KCI. These "not satisfied" findings, as will be demonstrated below, have no impact on a CLEC's ability to compete. Moreover, under the guidance of the FPSC and the

<sup>&</sup>lt;sup>2</sup> These totals differ by one from KCI's Executive Summary due to discrepancies between KCI's Report and the Executive Summary. The above table is based on the individual test results.

FCC, BellSouth will continue to make changes and improve both processes and results to address these few issues identified in the Report. It is important to review the Report in its totality and to see the vast number of satisfied test points on key test processes and products. The results of the test are very positive with a 97% success rate, which does provide further proof that BellSouth provides non-discriminatory access to its OSS.

The following summary of the few "not satisfied" OSS evaluation criteria further confirms BellSouth's successful performance on the Test in that none of the "not satisfied" criteria constitutes an impediment to a CLEC's ability to compete in Florida, Tennessee, or any other state in BellSouth's region. A brief description of each exception and its "not satisfied" evaluation criteria along with BellSouth's assessment of each issue follows:

### **RMI Domain**

Exception 88 – KCI alleges that the BellSouth Change Control Prioritization process does not allow CLECs to be involved in prioritization of all CLEC impacting change requests. This finding resulted in three not satisfied evaluation criteria, PPR1-3, PPR1-4 and PPR1-8.

BellSouth Response - BellSouth has proposed numerous changes to the Change Control Process to address the issues identified by KCI. The CLECs have adopted several of the changes, but there are a few, particularly related to the prioritization of change requests, that have not reached consensus. KCI stated in the Report that BellSouth's last proposal, if implemented, would address KCI's concerns raised in Exception 88 and addressed in the currently not satisfied evaluation criteria in the PPR1 test in the report. The issue is described in detail under the RMI Domain section of the Report.

The FPSC Staff has also commented favorably on BellSouth's latest proposal and the internal process that would support it. In its recommendation dated July 15, 2002, the Staff concludes, "Staff recommends that at present, the "50/50" proposal, as reflected in the attached document entitled End-to-End Process Flow, Draft Version 2.1, be implemented by BellSouth to resolve the Change

Control Process impasse." The FPSC will consider this recommendation during its July 23, 2002 agenda session. Once this process is implemented, Exception 88 and the three not satisfied evaluation criteria would be satisfied.

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Exception 123 - BellSouth is not classifying Change Requests as defects in accordance with the BellSouth definition of a Defect. This finding resulted in one not satisfied evaluation criteria, PPR1-6.

BellSouth's Response - BellSouth has revised internal documentation, introduced a job aid and conducted employee training sessions to ensure that both BellSouth and CLEC-initiated defects are classified in accordance with the new definition of CLEC-affecting, and that they are communicated through the Change Control Process. BellSouth believes the additional training, and the creation of a job aid documentation modifications address any concerns associated with this issue.

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Exception 157 – KCI alleges that BellSouth fails to follows its software testing and quality guidelines – This finding resulted in three not satisfied evaluation criteria, PPR5-2, PPR5-3 and PPR5-17.

BellSouth's Response: - KCI has asserted that BellSouth's methodology for developing software and interfaces are not consistently followed. KCI has observed Releases 10.2, 10.3, and 10.5.

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Ms. Lichtenberg also refers to this exception as an issue on page 6 or her testimony. As for KCI's criticisms regarding Releases 10.2 and 10.3, BellSouth investigated KCI's findings, which focused on some BellSouth internal testing documents, and disagreed with KCI's conclusions in Exception 157. BellSouth follows the industry standard model for testing software. Both Release 10.2 and 10.3 met BellSouth's testing and quality standards. Release 10.5, which was originally scheduled for implementation May 17-18, 2002, did not. During the week before the release. BellSouth identified six severity level 2 defects for which BellSouth could not implement adequate workarounds before the planned Production Release date of May 17, 2002.<sup>3</sup> Because of this, and to ensure that the release met the quality standards to which BellSouth committed, and that the CLECs had additional time to test the release, BellSouth delayed the implementation of Release 10.5 The CLECs were notified via the carrier notification process. On June 1-2, 2002, BellSouth implemented Release 10.5 with two severity level 3 defects, which have been described to the CLECs in change requests CR0800 and CR0801.4 Immediately after the implementation of Release 10.5, BellSouth began routine post-implementation monitoring and testing to insure that the installed software was functioning properly in production. Over the next several days, BellSouth identified specific situations in

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<sup>&</sup>lt;sup>3</sup> Severity level 2 means that system functionality is degraded with serious adverse impact to the user and there is not an effective work-around.

<sup>&</sup>lt;sup>4</sup> Severity level 3 means that system functionality is degraded with a moderate adverse impact to the user but there is an effective workaround.

which the software was not functioning exactly as expected. The CLECs were notified via defect notifications and the associated change requests, and also via the daily change request report that is emailed to the CCP participants.<sup>5</sup> KCl has amended Exception 157 to include criticisms related to Release 10. 5. As in BellSouth's original response to Florida Exception 157, BellSouth has investigated KCl's findings and disagrees with KCl's assessment. BellSouth has followed its software testing and quality processes for each release.

To further address this issue, on July 9, 2002 the FPSC mandated three new manual Change Management Service Quality Measurements (SQMs). The new measures focus on the number of defects associated with releases, the duration associated with defect correction and software validation.

# **Order Management Domain**

Exception 121 – KCI could not identify flow through Firm Order Confirmations (FOC) on Local Number Portability (LNP) LSRs submitted electronically via the mechanized ordering process. This finding resulted in one not satisfied evaluation criteria, TVV3-4.

BellSouth Response - According to Ordering 0-3 of the Service Quality Measurement Plan, BellSouth should issue a flow through FOC on 85% of LNP LSRs submitted through mechanized ordering processes. During the initial test, BellSouth's flow through rate for the test was 86%, which exceeds the 85% benchmark. KCI issued an amended exception on 6/6/02 based on a retest from 2/15/02 to 5/23/02. They found a flow through rate of 76.5% based on 34 transactions. The 8 LSRs listed in the amendment as failures were all submitted on a single billing account. The Customer Service Record ("CSR") for the billing account contained two virgules (//) in the listed field, instead of one virgule (/). Invalid data on the CSR caused the 8 LSRs listed above to fall out for manual intervention. The CSR data that caused this issue was corrected on 05/08/02. Additionally, the LSRs listed in this exception were submitted within 3 days (03/21/02, 03/22/02 and 04/25/02) on a single account. Ordering O-3 measures the percentage of LNP LSRs that flow through for an entire month. BellSouth's commercial data available through SQM reports provides a complete view of Ordering O-3 results for LNP. BellSouth's results for January 2002 through April 2002 are 92.81%, 94.12%, 92.25% and 92.59% compared to a benchmark of 85%. KCI's small sample size and a single billing account are not representative of BellSouth's actual LNP flow through rates.

Exception 122 – KCI alleges that BellSouth did not provide flow-through classification information for Digital Subscriber Line (DSL) orders submitted by KCI. This finding resulted in one not satisfied evaluation criteria, TVV3-2. BellSouth Response - As part of the "Flow-Through" Evaluation, KCI found that xDSL PONs were not being reported on the LSR Detail Report. BellSouth will

<sup>&</sup>lt;sup>5</sup> The defect notifications are posted at http://www.interconnection.bellsouth.com/markets/lec/ccp/ccp\_t6dn.html.

implement a feature in Release 10.6 on 8/25/02 so xDSL flow-through data will be added to the LSR detail report. This is simply a product reporting issue that has no impact to a CLEC's ability to submit xDSL PONs to BellSouth. This exception should be closed since this is a Metrics report issue and is captured in metrics Exception 113.

Exception 136 – KCI alleges that they did not receive flow through firm order confirmations (FOC) on unbundled network element (UNE) LSR submitted electronically via the mechanized ordering process. This finding is related to the same evaluation criteria as Exception 122,TVV3-2.

BellSouth's Response - KCI did rate as "satisfied" both Residential and Business Resale flow through. BellSouth's overall flow through results show that BellSouth's flow through performance remains strong. This is most clearly demonstrated by flow through data for CLECs that submit large numbers of requests and yet maintain high flow through rates. In fact, three of the top five CLECs measured by electronic LSR volume in the region for the first quarter 2002 have flow through rates ranging from 90.19% to 94.64%. BellSouth's commercial Flow Through data show BellSouth exceeds the benchmark for LNP Flow Through and is close to meeting the UNE benchmark.

BellSouth remains committed to improving flow through rates for products ordered by CLECs. On July 9, 2002 the FPSC mandated that BellSouth file a specific action plan by July 30, 2002, designed to further improve the flow-through SQM to achieve the mandated benchmarks for the flow through metric.

 Exception 161 – KCI alleges that they have not received timely Non-Mechanized rejects from BellSouth. This finding resulted in one not satisfied evaluation criteria, TVV1-3-16.

BellSouth Response – KCI did not follow the military style test philosophy in this instance since they retested a test that was satisfied. BellSouth passed the original test for this evaluation criterion and passed each of the four manual volume tests. BellSouth disagreed with KCI's exception in that KCI included in its production retest of the non-mechanized interface complex products and services that are submitted to the Complex Resale Services Group ("CRSG"). The 0-8 ordering measure which KCI applied exclusively to the timeliness of orders handled by the Local Carrier Service Center ("LCSC"). Thus, the time intervals for complex orders handled by the CRSG should not have been included in the KCI test results. When the CRSG transaction intervals are excluded, BellSouth returned 100% of the non-mechanized rejects within the benchmark. BellSouth disagrees with KCI's findings on this issue. There is ample test data and commercial data reported in the monthly SQMs to demonstrate that BellSouth provides manual rejects in a timely manner and to reject KCI's allegation in this exception.

Exception 165 – KCI alleges that BellSouth provides inconsistent and incorrect information on Clarification (CLR) responses for Resale, UNE-P, and UNE Loop

service requests. This finding resulted in one not satisfied evaluation criteria, TVV1-2-2.

BellSouth Response – BellSouth disagrees with KCI's conclusion in this exception. First, BellSouth passed (meeting the 95% KCI benchmark) this evaluation criteria in both the original test (96.01%) and the first retest (96.49%). Thus, there was no need for the second retest addressed in this exception. Second, although KCI initially reported performance of 83%, KCI later agreed with BellSouth that the performance was actually 89%. Third, 1/3 of the inaccurate responses in this exception were the result of a single test scenario that is rare in the commercial market. Specifically, KCI tested a scenario in which the end-user requested a disconnect on the main telephone number of a multiline business account. While business customers do disconnect second lines that are no longer needed, business customers typically want to retain their main telephone number that is published and used by their customers. Finally, BellSouth will resolve the majority of the inaccurate responses by updating the usage rules for specific fields in the BBR-LO through the change control process. Additionally, one system change (CR 0705) was implemented in Release 10.5 on June 1, 2002.

# **Provisioning Domain**

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Exception 84 – KCI alleges that BellSouth failed to use the proper codes when provisioning switch translations. This finding resulted in two not satisfied evaluation criteria, TVV4-3 and TVV4-28.

BellSouth's Response - The test scenario failure associated with this exception as described above is rarely encountered in the business environment and thus has no meaningful impact on a CLEC's ability to compete in the local market. Specifically, KCI again tested a scenario in which the end user requested to disconnect the main telephone number of an existing multi-line business account and to reassign a secondary line as the main line. While such a scenario is possible, a business customer would not typically disconnect its main telephone number that is published to, and used by, its customers. When this non-realistic scenario is excluded from the data in exception 84, BellSouth's success rate increases from 90% to 97%, which exceeds the KCI, applied standard of 95% and would satisfy the two evaluation criteria. Even though this scenario is rare, BellSouth has opened a change request to update the business rules for disconnecting the main telephone number of an existing multi-line account, as well as updated methods and procedures for its service representatives. Thus, this rare commercial ordering issue will be resolved, but it has no real impact on the CLEC community.

Exception 171 – KCI alleges that BellSouth's systems or representatives have not consistently updated the directory databases as specified in orders submitted by KCI. This finding resulted in two not satisfied evaluation criteria TVV4-1 and TVV4-29.

BellSouth's Response - KCI's conclusion that BellSouth failed to consistently update the directory databases was based in significant part (13% of the

1 2 3 4 5 6		commercially insignificant test scenario described above. When this commercially insignificant test scenario is excluded, BellSouth's performance was 98.5%, well above KCI's 95% benchmark. To address the remaining 1.5%, BellSouth will open a change request to include the community name, when appropriate, for New Directory Listing orders. This change request will address the orders, although this small number of errors is not commercially significant.
7 8		As this brief discussion makes clear, these "not satisfied" evaluation criteria have
9		no meaningful impact on a CLEC's ability to compete. Moreover, they are
10		particularly insignificant in light of the 97% success rate on the extensive test.
11		
12	Q:	PLEASE PROVIDE A STATUS ON THE TESTING IN PROGRESS
13		EVALUATION CRITERIA SHOWN IN THE REPORT.
14		
15	A.	Certainly. BellSouth would also like to provide a current status of the fourteen
16		test evaluation criteria that were shown as Testing in Progress in the Report.
17 18 19 20 21 22	•	Order Management Domain  TVV1-1-4 evaluates if BellSouth manual order process provides expected system functionality. KCI is testing BellSouth's ability to process new orders for Centrex® service as described in Exception 162. CLECs have not ordered any new Centrex® service, but KCI is testing the product since it was included in the MTP.
23		Provisioning Domain
24 25 26 27 28 29 30		At the time of the Report, KCI was waiting on April retail data for the SQM metric P-3: Percent Missed Installation Appointments for evaluation criteria TVV4-5 and TVV4-6 and on SQM Metric P-2: Percentage of Orders Put in Jeopardy for evaluation criteria TVV4-7 and TVV4-8. This data was subsequently submitted to KCI, and KCI announced in the Workshop on July 12, 2002 that these four evaluation criteria were now satisfied.
31 32 33 34 35		Additionally, at the time of the report, KCI was waiting on April and May data for the SQM P-9 Percentage Troubles within 30 Days of Service Order Completion for evaluation criteria TVV 4-9 and TVV 4-10. The April data was provided prior to the workshop, and the May data was provided on July 18, 2002. This data satisfied KCI's requests, thus these two evaluation are now considered satisfied.

TVV4-39 evaluated the accuracy of BellSouth's Line Loss Reports. KCI announced on the July 15, 2002 CLEC Exception Status Call that they had completed their retest on the accuracy of Line Loss Reports, and concluded that BellSouth met the standard. KCI closed the exception, thus this evaluation criteria became satisfied.

# **Billing Domain**

As a part of the retest on UNE invoices, KCI had not reached conclusion when the Report was issued for six evaluation criteria. Currently, two evaluation criteria remain Testing in Progress while four have since been satisfied. BellSouth expects the remaining two evaluation criteria to be satisfied when Version 2 of the Report is issued on July 30, 2002. A description of each evaluation criteria follows:

TVV11-2-2 evaluates if recurring rates on UNE invoices are consistent with applicable tariffs and/or contract rates. In previous testing, 100% of the monthly recurring charges reviewed were consistent with applicable tariffs and/or contract rates. UNE testing related to the Tapestry upgrade is still in progress and will be completed pending receipt of two commercial bills.

TVV11-2-14 evaluates if pro-rated calculations on UNE invoices are consistent with applicable tariffs and/or contract rates. In current testing related to the IBS/Tapestry UNE upgrade, 100% of the 105 pro-rated charges reviewed to date were consistent with applicable tariffs and/or contract rates. This testing is still in progress and will be completed pending receipt of two commercial bills.

Evaluation criteria TVV11-2-5, TVV11-2-16, TVV11-2-17 and TVV11-3-3 have all been resolved through exception closures (Exceptions 44, 164 and 172), and are now considered satisfied.

As of July 22, 2002, the specific results for each test domain are as follows:

Domain	Satisfied	Not Satisfied	Testing in Progress	Total
Order Management	105	4	1	110
Billing	85	0	2	87
Relationship Mgmt Infrastructure	67	7	0	74
Repair Provisioning & Maintenance	209	4	0	21 3
Phase I Total	466	15	3	48

				4
%	96	3%	1%	10
	%			0%

Again, BellSouth expects that all three of the remaining evaluation criteria to be satisfied when KCI publishes Version 2 of the Report on July 30, 2002. This overwhelming success rate for the test as described in the Report, combined with BellSouth's commercial data, provides conclusive evidence that BellSouth provides non-discriminatory access and parity to CLECs.

Q. PLEASE DISCUSS THE ISSUE ASSOCIATED WITH THE THREE FLORIDA EXCEPTIONS RAISED BY MR. BRADBURY ON PAGES 15 AND 16 OF HIS TESTIMONY.

Α.

Mr. Bradbury states that timely, complete and accurate status notices are critical to CLECs. He says that BellSouth does not provide complete information in its status notifications and uses the three Florida exceptions as the basis of his argument. I would like to address each of the Florida exceptions, and then put this issue in perspective as reported by KCI in the Florida Test.

#### Exception 165

KCI alleges that BellSouth provides inconsistent and incorrect information on Clarification (CLR) responses for Resale, UNE-P, and UNE Loop service requests. This finding resulted in one not satisfied evaluation criteria, TVV1-2-2. BellSouth Response – BellSouth disagrees with KCI's conclusion in this exception. First, BellSouth passed (meeting the 95% KCl benchmark) this evaluation criteria in both the original test (96.01%) and the first retest (96.49%). Thus, there was no need for the second retest addressed in this exception. Second, although KCI initially reported performance of 83%, KCI later agreed with BellSouth that the performance was actually 89%. Third, 1/3 of the inaccurate responses in this exception were the result of a single test scenario

that is rare in the commercial market. Specifically, KCI tested a scenario in which the end-user requested a disconnect on the main telephone number of a multiline business account. While business customers do disconnect second lines that are no longer needed, business customers typically want to retain their main telephone number that is published and used by their customers. Finally, BellSouth will resolve the majority of the inaccurate responses by updating the usage rules for specific fields in the BBR-LO through the change control process. Additionally, one system change (CR 0705) was implemented in Release 10.5 on June 1, 2002.

### Exception 166

KCI issued this exception to address an issue with the Billing Account Number (BAN) not being returned to CLECs on their Firm Order Confirmations (FOCs). In response to a CLEC's complete and correct Local Service Request (LSR), BellSouth generates a FOC that details the service completion due date, CLEC Company Code, Purchase Order Number and version, and the BAN. alleged that BellSouth's failure to provide BANs may require CLECs to utilize additional resources to verify BAN information in order to successfully process individual customer orders. BellSouth agreed that the BAN was not being returned as it should, and corrected the issue in Release 10.5 on June 1, 2002. KCI subsequently retested the issue and found that BANs were being successfully returned in FOCs so the exception was satisfied and closed. However, BellSouth disagrees with KCI's assessment of the issue as it impacts CLECs since CLECs actually submit the BAN to BellSouth when they submit the LSR, thus they have the BAN information, and no CLEC had detected that the BAN was not being returned. If it were pertinent to their operations, CLECs would have found the issue and identified it to BellSouth before KCI raised it as an issue.

### Exception 170

KCI issued this exception to identify that they had not received complete Missed Appointment (MA) responses to service requests. CLECs expect to receive a MA response when an appointment is missed due to an end-user reason. KCI expected that at least 95% of all MA responses from BellSouth to be accurate and complete. KCI alleged that only 75% (21/28) of the MA responses were determined to be complete. BellSouth researched the KCI's findings and provided conclusive evidence that KCI had indeed actually received complete MA responses. BellSouth provided KCI with actual screenshots of the MA responses. BellSouth's provided accurate and complete MA responses for 100% of the transactions. KCI agreed that BellSouth had met the 95% standard, so the exception was satisfied and closed.

KCI extensively tested notification responses in both the Georgia and
Florida Tests. The table that follows provides a full report of the
timeliness, completeness and accuracy of notifications as measured by
KCI in the Florida Test. The two evaluation criteria (FL Test References
TVV1-2-2 and TVV1-3-16) are the result of previously discussed Florida
exceptions 161 and 165.

FL Evaluation Criteria Description	FL Test Reference	FL Test Result
BellSouth systems or representatives provide accurate and complete Firm Order Confirmations (FOCs)	TVV1-2-1	Satisfied
BellSouth system or representatives provide accurate and complete Error (ERR)/Clarification (CLR) messages.	TVV1-2-2	Not Satisfied
BellSouth systems or representatives provide accurate and complete Completion Notices (CNs).	TVV1-2-3	Satisfied
BellSouth systems or representatives provide, accurate and complete Missed Appointment (MA) Notifications.	TVV1-2-4	Satisfied
BellSouth Service Order Tracking System (CSOTS) provides accurate LSR status.	TVV1-2-5	Satisfied
BellSouth's EDI interface provides Functional Acknowledgements (FAs) within the agreed upon standard interval.	TVV1-3-1	Satisfied
BellSouth's EDI interface provides Fully Mechanized (FM) reject (REJ) responses within the agreed upon standard interval.	TVV1-3-2	Satisfied
BellSouth's EDI interface provides Partially Mechanized (PM) rejects (REJ) responses within the agreed upon standard interval.	TVV1-3-3	Satisfied
BellSouth's EDI interface provides Fully Mechanized (FM) Firm Order Confirmations (FOC) responses within the agreed upon standard interval.	TVV1-3-4	Satisfied
BellSouth's EDI interface provides Partially Mechanized (PM) Firm Order Confirmation (FOC) responses within the agreed upon standard interval.	TVV1-3-5	Satisfied
BellSouth's EDI interface provides timely Completion Notifications (CNs).	TVV1-3-6	Satisfied
BellSouth's TAG interface provides Functional Acknowledgements (FAs) within the agreed upon standard interval.	TVV1-3-7	Satisfied
BellSouth's TAG interface provides Fully Mechanized (FM) reject/error (REJ/ERR) responses within the agreed upon standard interval.	TVV1-3-8	Satisfied
BellSouth's TAG interface provides Partially Mechanized (PM) rejects (REJ) responses within the agreed upon standard interval.	TVV1-3-9	Satisfied
BellSouth's TAG interface provides Fully Mechanized (FM) Firm Order Confirmation (FOCs) responses within the agreed upon standard interval.	TVV1-3-10	Satisfied
BellSouth's TAG interface provides Partially Mechanized (PM)	TVV1-3-11	Satisfied

Firm Order Confirmation (FOC) responses within the agreed		
upon standard interval.		
BellSouth's TAG interface provides Completion Notifications (CNs)	TVV1-3-12	Satisfied
within the agreed upon standard interval.	TT T 11 2 12	0 1 0 1
BellSouth's LENS interface provides Fully Mechanized (FM) Firm	TVV1-3-13	Satisfied
Order Confirmation (FOC) responses within the agreed		
upon standard interval.	TT T 11 0 1 1	0 1 0 1
BellSouth's LENS interface provides Partially Mechanized (PM)	TVV1-3-14	Satisfied
Firm Order Confirmation (FOC) responses within the agreed upon		
standard interval.	TT T 11 0 15	0 6. 1
BellSouth's manual order process provides Acknowledgements	TVV1-3-15	Satisfied
(ACKs) within the agreed upon standard interval.	TXXXI 2.16	NT 4
BellSouth's manual order process provides reject (REJ) responses	TVV1-3-16	Not
within the agreed upon standard interval.	TXX 11 2 17	Satisfied
BellSouth's manual order process provides Firm Order Confirmation	TVV1-3-17	Satisfied
(FOC) responses within the agreed upon standard interval.	TXX/1 2 10	C-4:-C:-1
BellSouth's manual order process provides Completion Notifications	TVV1-3-18	Satisfied
(CNs) within the agreed upon standard interval.	TV/22 / 1	Satisfied
BellSouth's EDI interface provides Functional Acknowledgements	TVV2-4-1	Saustied
(FA).	TVV2-4-2	C-4:-C:-1
BellSouth's TAG interface provides Functional Acknowledgements (FAs) or synchronous fatal rejects (ERRs) as expected.	1 V V Z-4-Z	Satisfied
BellSouth's EDI interface provides Fully Mechanized (FM) Firm	TV//2 / 2	Satisfied
Order Confirmations (FOC), Errors, and Clarifications	TVV2-4-3	Saustied
(ERRs/CLRs).		
BellSouth's TAG interface provides Fully Mechanized (FM) Firm	TVV2-4-4	Satisfied
Order Confirmations (FOC), Errors, and Clarifications	1 V V Z-4-4	Saustieu
(ERRs/CLRs).		
BellSouth's LENS interface provides Fully Mechanized (FM) Firm	TVV2-4-5	Satisfied
Order Confirmations (FOC), Errors, and Clarifications	1 V V2-4-3	Satisfied
(ERRs/CLRs).		
BellSouth's Manual Order process provides Firm Order	TVV2-4-6	Satisfied
Confirmations, Errors, and Clarifications.	1 7 72 7 0	Satisfied
BellSouth's EDI interface provides accurate Fully Mechanized (FM)	TVV2-5-1	Satisfied
Firm Order Confirmations (FOC), Errors, and Clarifications	1 1 1 2 3 1	Batisfied
(ERRs/CLRs).		
BellSouth's TAG interface provides accurate Fully Mechanized	TVV2-5-2	Satisfied
(FM) Firm Order Confirmations (FOC), Errors, and Clarifications	1,,232	Satisfied
(ERRs/CLRs).		
BellSouth's LENS interface provides accurate Fully Mechanized	TVV2-5-3	Satisfied
(FM) Firm Order Confirmations (FOC), Errors, and Clarifications	1,,233	Satisfied
(ERRs/CLRs).		
BellSouth's manual ordering process provides accurate Firm Order	TVV2-5-4	Satisfied
Confirmations (FOC), Errors, and Clarifications (ERRs/CLRs).		
BellSouth's EDI interface provides Functional Acknowledgements	TVV2-6-1	Satisfied
(FAs) within the agreed upon standard interval.		
BellSouth's EDI interface provides Fully Mechanized (FM)	TVV2-6-2	Satisfied
error/clarification (ERR/CLR) responses within the agreed upon	-	
standard interval.		
BellSouth's EDI interface provides Fully Mechanized (FM) Firm	TVV2-6-3	Satisfied
Order Confirmation (FOC) responses within the agreed upon		
standard interval.		
BellSouth's TAG interface provides Functional Acknowledgements	TVV2-6-4	Satisfied
(FAs) within the agreed upon standard interval.		
()		

error/clarification (ERR/CLR) responses within the agreed upon		
standard interval.		
BellSouth's TAG interface provides Fully Mechanized (FM) Firm	TVV2-6-6	Satisfied
Order Confirmation (FOC) responses within the agreed upon		
standard interval.		
BellSouth's LENS interface provides Fully Mechanized (FM)	TVV2-6-7	Satisfied
error/clarification (ERR/CLR) responses within the agreed upon		
standard interval.		
BellSouth's LENS interface provides Fully Mechanized (FM) Firm	TVV2-6-8	Satisfied
Order Confirmation (FOC) responses within the agreed upon		
standard interval.		
BellSouth's manual ordering process provides error/clarification	TVV2-6-9	Satisfied
(ERR/CLR) responses within the agreed upon standard interval.		
BellSouth's manual ordering process provides Firm Order	TVV2-6-10	Satisfied
Confirmation (FOC) responses within the agreed upon standard		
interval.		

These results are conclusive and demonstrate that Mr. Bradbury's conclusion is not based on facts. BellSouth does provide timely, complete, and accurate notifications to CLECs.

# Q. PLEASE SUMMARIZE YOUR COMMENTS.

A. The Georgia Test met its objective of providing – in conjunction with extensive commercial usage in Georgia – a comprehensive, independent third-party test of the readiness of BellSouth's Operational Support Systems, related interfaces, documentation and processes to support local market entry by CLECs as evidenced by the FCC's approval of BellSouth's section 271 applications in Georgia and Louisiana. This test was adequate and its results were both independently attained and based upon facts. Ninety-eight percent of the evaluation criteria in the Georgia Test were satisfied versus not satisfied. Additionally, the Florida OSS Test Draft Final Report has been published with 97% of the evaluation criteria satisfied. BellSouth's Pre-ordering and Ordering Systems are regional as found by PwC and the FCC. BellSouth provides non-discriminatory access to its OSS in compliance with the Authority's requirements

- as demonstrated by its commercial usage and the independent third party OSS
- 2 Test in Georgia.

4 This concludes my testimony.

<u>AFFIDAVIT</u>

STATE OF: Georgia

**COUNTY OF: Fulton** 

BEFORE ME, the undersigned authority, duly commissioned and qualified in and for

the State and County aforesaid, personally came and appeared Milton McElroy, Jr.- Director,

Interconnection Services, BellSouth Telecommunications, Inc., who, being by me first duly

sworn deposed and said that:

He is appearing as a witness before the Tennessee Regulatory Authority in Docket

No. 97-00309 on behalf of BellSouth Telecommunications, Inc., and if present before the

Authority and duly sworn, his testimony would be set forth in the annexed testimony

consisting of  $\frac{28}{}$  pages and  $\frac{7}{}$  exhibit(s).

Milton McElroy, Jr.

Sworn to and subscribed

before me on July 22, 2002

Notary Public, Gwinnett County, Georgia My Commission Expires June 27, 2005